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Amendments according to Article 34 PCT

Capsules for oral administration having a delayed release of the content of the capsule

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The present invention relates to the use of a polyphenolcontaining plant extract for delaying the release of the content of gelatine capsules.

10 many dietary supplement products, dietetic case of products and medicaments, it is desirable that the active ingredient is released from the administration form at a certain time after ingestion or in a certain portion of the gastrointestinal tract. It is the object of this temporally 15 or locally controlled release either to protect the user against unpleasant properties of the active ingredient (e.g. bad taste, mucosa irritant effect, unpleasant eructation) or to protect the active ingredient against degradation by the aggressive gastric juice or to achieve an improved uptake of 20 the active ingredients into the body by release in the small intestine.

This delayed release is particularly desirable in those cases, when the active ingredients to be applied are plant extracts which cause an unpleasant taste or exhalation upon eructation in case of too rapid disintegration of the capsule or when substances are contained which may be decomposed in the stomach.

A preferred administration form for said dietary supplement products, dietetic products and medicaments is a capsule which may be filled with liquid, semi-solid or solid sub-

Claims

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- 1. Use of a polyphenol-containing plant extract for delaying the release of the content of gelatine capsules, wherein the polyphenol-containing plant extract is a component of the content of the capsule.
- 2. Use according to claim 1, characterized in that the content of the capsule comprises a polyphenol-containing plant extract and a liquid, water-immiscible carrier.
- 3. Use according to claim 1 or 2, characterized in that the polyphenol-containing plant extract is produced from at least one of the plants Camellia sinensis, Crataegus monogyna,
- 15 Ginkgo biloba, Humulus lupulus, Hypericum perforatum, triandra, Potentilla tormantilla, Krameria Pterocarpus marsupium, Quercus species, Uncaria gambir, Vaccinium myrtillus or Vitis vinifera.
- 4. Use according to any one of claims 1 to 3, characterized in that the liquid, water-immiscible carrier is selected from the group of polyunsaturated oils, particularly oils having a high content of omega-3 fatty acids.
- 25 5. Use according to any one of claims 1 to 4, characterized in that the fluid, water-immiscible carrier is selected from perilla seed oil, evening primrose seed oil, currant seed oil, fish oil, borage oil and linseed oil.
- 30 6. Use according to any one of claims 1 to 5, characterized in that the content of the capsule contains further substances selected from the group comprising plant oils, partially or completely hydrogenated plant oils, beeswax,

lecithin, neutral oil, hardened fat, highly dispersed silicon dioxide and sorbitan monooleate.

- 7. Method for delaying the release of the content of gelatine capsules, wherein a polyphenol-containing plant extract is incorporated into the content of the capsules.
 - 8. Method according to claim 7, characterized in that a polyphenol-containing plant extract and a liquid, water-immiscible carrier are incorporated into the content of the capsules.
- Method according to claim 7 or 8, characterized in that the polyphenol-containing plant extract is produced from at 15 one of the plants Camellia sinensis, Crataegus monogyna, Ginkgo biloba, Humulus lupulus, Hypericum perforatum, Krameria triandra, Potentilla tormantilla, Pterocarpus marsupium, Quercus species, Uncaria Vaccinium myrtillus or Vitis vinifera.

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10. Method according to any one of claims 7 to 9, characterized in that the liquid, water-immiscible carrier is selected from the group of polyunsaturated oils, particularly oils having a high content of omega-3 fatty acids.

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11. Method according to any one of claims 7 to 10, characterized in that the liquid, water-immiscible carrier is selected from perilla seed oil, evening primrose seed oil, currant seed oil, fish oil, borage oil and linseed oil.

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12. Method according to any one of claims 7 to 11, characterized in that further substances are incorporated into the content of the capsules, selected from the group

comprising plant oils, partially or completely hydrogenated plant oils, beeswax, lecithin, neutral oil, hardened fat, highly dispersed silicon dioxide and sorbitan monooleate.